



DATA SHEET NO. 3300-401

HYDRASET® Calcium Chloride Concrete Set Accelerator

DESCRIPTION

HYDRASET calcium chloride concrete set accelerator is a ready-to-use, liquid admixture. It accelerates initial setting time one to three times faster than normal mortar and concrete.

HYDRASET improves workability and strength while hastening the hydration of cement. It makes the mix easier to place and speeds construction by shortening the initial set and curing time. Time and labour are saved because forms and other protection can be removed earlier and finishing can be started.

HYDRASET should not be limited to use during months when temperatures are in the -7° - 7° C (20° - 45° F) range. Increased workability and earlier strength are also obtained when temperatures are in the 10° - 18° C (50° - 65° F) range because any time the temperature drops below 21° C (70° F) there is a reduction in the rate of cement hydration. During cold and hot weather application, follow ACI 305 and 306 recommendations.

USES

HYDRASET is recommended for use during cool and cold weather to accelerate the set time and reduce the risk of frozen mortar and concrete mixes. However, HYDRASET can be used any time you want to accelerate the set time to decrease turnaround time.

FEATURES/BENEFITS

- HYDRASET accelerates initial setting time one to three hours faster than normal concrete and mortar.
- Aids in strength development.
- Speeds up hydration of cement.
- Increases workability of concrete or mortar mix in colder temperatures.
- Speeds construction due to reduced setting and curing time.
- Allows earlier removal of concrete forms or other protection.
- Permits earlier finishing.

PACKAGING

3.78 Litre Units
18.9 Litre Pails
205 Litre Drums

SHELF LIFE

When stored indoors in original, unopened containers at temperatures between 4° - 32° C, optimum performance and best use is obtained within one year of date of manufacture.

SPECIFICATIONS

- AASHTO M 194, Type C
- ASTM C494, Type C
- Corps. of Engineers CRD C 87, Type C

APPLICATION

HYDRASET is added directly to the mix water. Reduce the amount of water by 5 to 7% to compensate for the liquid addition. For masonry mortar, 1.89 litres (2 quarts) of HYDRASET for each 42.73 kg (94 lb.) bag of cement should be used. For mortar cements that are 50% Portland cement and 50% lime, one-half the amount, or 950 mL (one U.S. quart) of HYDRASET, is required.

For concrete, the following quantities are recommended:

SUGGESTED QUANTITY OF HYDRASET for each 42.73 kg (94 lb.) bag of cement	
TEMPERATURE RANGE	(Metric/Imperial)
Above 21° C	0.47 L (1 pint)
21° C to 0° C	0.95 L (1 quart)
0° C to -4° C	0.94 - 1.42 L (1 - 1.5 quarts)
-4° C to -7° C	1.89 L (2 quarts)

Continued over ...

W. R. MEADOWS® OF CANADA
70 Hannant Court, Milton, ON L9T 5C1
21 Streambank Ave., Sherwood Park, AB T8H 1N1
(800) 342-5976
Montreal Sales: (514) 865-2406

Hampshire, IL / Cartersville, GA / York, PA / Fort Worth, TX
Benicia, CA / Pomona, CA / Goodyear, AZ / Milton, ON
Sherwood Park, AB
www.wrmeadows.com
info@wrmeadows.com

PRECAUTIONS

HYDRASET affects only the Portland cement portion of the mix and is not an antifreeze for the water portion. HYDRASET has no effect on straight lime mortars and should not be used with oxychloride stuccos. Use HYDRASET directly from the factory-sealed container; do not dilute. Avoid direct contact. Ingestion may cause moderate to severe irritation of the digestive tract. Read and follow complete application information and precautions on container, prior to use. Consult Safety Data Sheet for complete health and safety information.

MASTERFORMAT NUMBER AND TITLE

03 05 00 – Common Work Results for Concrete

LEED INFORMATION

May help contribute to LEED credits:

- MRc9: Construction and Demolition Waste Management
- EQc2: Low-Emitting Materials [For Healthcare and Schools (exterior-applied products) ONLY]

For most recent data sheet, further LEED information, and SDS, visit www.wrmeadows.com.

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